

### Claims

What is claimed is:

- 5           1.   An adaptable distillation column comprising:  
  
          a length of metal or plastic tubing;  
  
          a connector fitting attached and sealed to one end of the tubing, sufficient in  
type to attach the adaptable distillation column by a temporary sealed connection  
to a boiling vessel;  
  
10           one or more lengths of smaller diameter tubing sufficient in length to protrude  
on both sides of the larger diameter tubing, placed directly through the larger  
diameter tubing through holes drilled or otherwise created on opposing sides of  
the larger diameter tubing, wherein the smaller diameter tubing is sealed to the  
larger diameter tubing and where at least one length of smaller diameter tubing is  
15           placed nearer to the location where vapor exits the larger diameter tubing than to  
the connector fitting;  
  
  
          2.   A distillation column wherein additional lengths of larger diameter tubing  
may be used to increase the total length of the distillation column comprising:  
  
20           a length of larger diameter tubing with a length of at least 4 inches wherein a  
connector fitting of the same type as that used on the distillation column is  
attached and sealed to one end of the larger diameter tubing;

a connector fitting of the same type as that used on the boiling vessel is attached and sealed to the opposite end of the larger diameter tubing.

3. A distillation column wherein the use of more than one length of smaller diameter tubing directly through any portion of the distillation column is not parallel with another length of tubing through the same distillation column.